

> S 800 AND VALIDATION

157628 800  
7217 VALIDATION  
L1 1064 800 AND VALIDATION

=> S L1 AND DNIS

191 DNIS  
L2 28 L1 AND DNIS

=> S L2 AND ANI

1622 ANI  
L3 26 L2 AND ANI

=> D TI, CIT 1-

US PAT NO: 5,918,213 [IMAGE AVAILABLE] L3: 1 of 26  
TITLE: System and method for automated remote previewing and  
purchasing of music, video, software, and other  
multimedia products

1. 5,918,213, Jun. 29, 1999, System and method for automated remote  
previewing and purchasing of music, video, software, and other multimedia  
products; Warren E. Bernard, et al., 705/26, 27 [IMAGE AVAILABLE]

US PAT NO: 5,901,214 [IMAGE AVAILABLE] L3: 2 of 26  
TITLE: One number intelligent call processing system

2. 5,901,214, May 4, 1999, One number intelligent call processing  
system; James D. Shaffer, et al., 379/220, 88.01, 88.13, 219, 223 [IMAGE  
AVAILABLE]

US PAT NO: 5,870,464 [IMAGE AVAILABLE] L3: 3 of 26  
TITLE: Intelligent information routing system and method

3. 5,870,464, Feb. 9, 1999, Intelligent information routing system and  
method; James A. Brewster, et al., 379/219, 201, 220, 229; 709/305 [IMAGE  
AVAILABLE]

US PAT NO: 5,867,780 [IMAGE AVAILABLE] L3: 4 of 26  
TITLE: Access free wireless telephony fulfillment service system

4. 5,867,780, Feb. 2, 1999, Access free wireless telephony fulfillment  
service system; James E. Malackowski, et al., 455/414; 348/17; 455/4.2  
[IMAGE AVAILABLE]

US PAT NO: 5,867,562 [IMAGE AVAILABLE] L3: 5 of 26  
TITLE: Call processing system with call screening

5. 5,867,562, Feb. 2, 1999, Call processing system with call screening;  
Gordon F. Scherer, 379/88.21, 112, 127, 229, 243, 245 [IMAGE AVAILABLE]

US PAT NO: 5,867,495 [IMAGE AVAILABLE] L3: 6 of 26  
TITLE: System, method and article of manufacture for  
communications utilizing calling, plans in a hybrid  
network

6. 5,867,495, Feb. 1999, System, method and article of manufacture for communications utilizing calling, plans in a hybrid network; Isaac K. Elliott, et al., 370/352, 389, 392; 379/90.01, 93.07, 114, 144 [IMAGE AVAILABLE]

US PAT NO: 5,867,494 [IMAGE AVAILABLE] L3: 7 of 26  
TITLE: System, method and article of manufacture with integrated video conferencing billing in a communication system architecture

7. 5,867,494, Feb. 2, 1999, System, method and article of manufacture with integrated video conferencing billing in a communication system architecture; Sridhar Krishnaswamy, et al., 370/352, 389, 392; 379/90.01, 93.07, 114 [IMAGE AVAILABLE]

US PAT NO: 5,828,468 [IMAGE AVAILABLE] L3: 8 of 26  
TITLE: Point of presence (POP) for digital facsimile network with spoofing capability to maintain fax session

8. 5,828,468, Oct. 27, 1998, Point of presence (POP) for digital facsimile network with spoofing capability to maintain fax session; Warren S. Lee, et al., 358/434; 370/264, 395; 379/100.12 [IMAGE AVAILABLE]

US PAT NO: 5,825,780 [IMAGE AVAILABLE] L3: 9 of 26  
TITLE: Method, system and apparatus for telecommunications control

9. 5,825,780, Oct. 20, 1998, Method, system and apparatus for telecommunications control; Joseph Michael Christie, 370/522 [IMAGE AVAILABLE]

US PAT NO: 5,809,121 [IMAGE AVAILABLE] L3: 10 of 26  
TITLE: System and method for generating a network call identifier

10. 5,809,121, Sep. 15, 1998, System and method for generating a network call identifier; Isaac K. Elliott, et al., 379/127, 116, 134, 207, 229 [IMAGE AVAILABLE]

US PAT NO: 5,752,186 [IMAGE AVAILABLE] L3: 11 of 26  
TITLE: Access free wireless telephony fulfillment service system

11. 5,752,186, May 12, 1998, Access free wireless telephony fulfillment service system; James E. Malackowski, et al., 455/414, 403, 412 [IMAGE AVAILABLE]

US PAT NO: 5,739,919 [IMAGE AVAILABLE] L3: 12 of 26  
TITLE: Point of presence (POP) for digital facsimile network

12. 5,739,919, Apr. 14, 1998, Point of presence (POP) for digital facsimile network; Warren S. Lee, et al., 358/407, 442; 379/100.01 [IMAGE AVAILABLE]

US PAT NO: 5,694,463 [IMAGE AVAILABLE] L3: 13 of 26  
TITLE: System for service control point routing

13. 5,694,463, Dec. 2, 1997, System for service control point routing; Joseph Michael Christie, et al., 379/230, 207, 221 [IMAGE AVAILABLE]

US PAT NO: 5,652,785 [IMAGE AVAILABLE] L3: 14 of 26  
TITLE: Enhanced wide area audio response network

14. 5,652,785, Jul. 29, 1997, Enhanced wide area audio response network; Charles Thomson Richardson, Jr., et al., 379/88.07, 93.14, 207, 230, 244

[IMAGE AVAILABLE]

US PAT NO: 5,619,556 [IMAGE AVAILABLE] L3: 15 of 26  
TITLE: Automated telecommunication peripheral system

15. 5,619,556, Apr. 8, 1997, Automated telecommunication peripheral system; Charles T. Richardson, Jr., et al., 379/88.22, 34, 88.2, 88.25, 88.26, 112, 202, 203 [IMAGE AVAILABLE]

US PAT NO: 5,487,103 [IMAGE AVAILABLE] L3: 16 of 26  
TITLE: Enhanced wide area audio response network

16. 5,487,103, Jan. 23, 1996, Enhanced wide area audio response network; Charles T. Richardson, Jr., et al., 379/88.26; 370/422; 379/88.08, 88.17, 88.2, 93.14, 207, 244 [IMAGE AVAILABLE]

US PAT NO: 5,479,530 [IMAGE AVAILABLE] L3: 17 of 26  
TITLE: Signature capturing printer and data card terminal

17. 5,479,530, Dec. 26, 1995, Signature capturing printer and data card terminal; Parameswaran B. Nair, et al., 382/119, 202 [IMAGE AVAILABLE]

US PAT NO: 5,432,326 [IMAGE AVAILABLE] L3: 18 of 26  
TITLE: Systems and methods for operating data card terminals for transaction chargeback protection

18. 5,432,326, Jul. 11, 1995, Systems and methods for operating data card terminals for transaction chargeback protection; Paul W. Noblett, Jr., et al., 235/380 [IMAGE AVAILABLE]

US PAT NO: 5,428,210 [IMAGE AVAILABLE] L3: 19 of 26  
TITLE: Data card terminal with embossed character reader and signature capture

19. 5,428,210, Jun. 27, 1995, Data card terminal with embossed character reader and signature capture; Parameswaran B. Nair, et al., 235/375, 380 [IMAGE AVAILABLE]

US PAT NO: 5,404,000 [IMAGE AVAILABLE] L3: 20 of 26  
TITLE: Embossed character reader for data card terminal

20. 5,404,000, Apr. 4, 1995, Embossed character reader for data card terminal; Parameswaran B. Nair, et al., 235/435, 440, 444, 446, 448, 451, 483, 485, 490; 382/187 [IMAGE AVAILABLE]

US PAT NO: 5,386,458 [IMAGE AVAILABLE] L3: 21 of 26  
TITLE: Systems and methods for operating data card terminals for transaction authorization

21. 5,386,458, Jan. 31, 1995, Systems and methods for operating data card terminals for transaction authorization; Parameswaran B. Nair, et al., 379/91.01; 235/375; 379/144, 221 [IMAGE AVAILABLE]

US PAT NO: 5,357,563 [IMAGE AVAILABLE] L3: 22 of 26  
TITLE: Data card terminal for receiving authorizations from remote locations

22. 5,357,563, Oct. 18, 1994, Data card terminal for receiving authorizations from remote locations; James H. Hamilton, et al., 379/91.01; 235/380; 379/221 [IMAGE AVAILABLE]

US PAT NO: 5,335,266 [IMAGE AVAILABLE] L3: 23 of 26  
TITLE: Automated telecommunication peripheral system

23. 5,335,266, Aug. 2, 1994, Automated telecommunication peripheral

system; Charles T. Richardson, Jr., et al., 379/88.26, 34, 112, 127, 202, 203, 207, 208 [IMAGE AVAILABLE]

US PAT NO: 5,334,823 [IMAGE AVAILABLE] L3: 24 of 26  
TITLE: Systems and methods for operating data card terminals for transaction chargeback protection

24. 5,334,823, Aug. 2, 1994, Systems and methods for operating data card terminals for transaction chargeback protection; Paul W. Noblett, Jr., et al., 235/380, 437 [IMAGE AVAILABLE]

US PAT NO: 5,317,627 [IMAGE AVAILABLE] L3: 25 of 26  
TITLE: Enhanced wide area audio response network

25. 5,317,627, May 31, 1994, Enhanced wide area audio response network; Charles T. Richardson, Jr., et al., 379/88.17, 93.15, 207, 244 [IMAGE AVAILABLE]

US PAT NO: 5,113,430 [IMAGE AVAILABLE] L3: 26 of 26  
TITLE: Enhanced wide area audio response network

26. 5,113,430, May 12, 1992, Enhanced wide area audio response network; Charles T. Richardson, Jr., et al., 379/88.17; 370/400; 379/88.08, 88.26,

speech and/or data signals simultaneously over either a single or a plurality of RF channels

22. 5,687,194, Nov. 11, 1997, Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or a plurality of RF channels; Eric Paneth, et al., 375/283; 370/330, 347, 436, 478; 455/403, 466 [IMAGE AVAILABLE]

US PAT NO: 5,680,446 [IMAGE AVAILABLE] L7: 23 of 45  
TITLE: Advanced intelligent network screening

23. 5,680,446, Oct. 21, 1997, Advanced intelligent network screening; Harold C. Fleischer, III, et al., 379/114, 112, 113, 115, 196, 197, 229, 230 [IMAGE AVAILABLE]

US PAT NO: 5,657,358 [IMAGE AVAILABLE] L7: 24 of 45  
TITLE: Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or plurality of RF channels

24. 5,657,358, Aug. 12, 1997, Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or plurality of RF channels; Eric Paneth, et al., 375/356; 370/330, 347, 477; 455/422 [IMAGE AVAILABLE]

US PAT NO: 5,642,407 [IMAGE AVAILABLE] L7: 25 of 45  
TITLE: System and method for selected audio response in a telecommunications network

25. 5,642,407, Jun. 24, 1997, System and method for selected audio response in a telecommunications network; Jingsha He, 379/87, 88.22, 127, 207, 257 [IMAGE AVAILABLE]

US PAT NO: 5,638,430 [IMAGE AVAILABLE] L7: 26 of 45  
TITLE: Call validation system

26. 5,638,430, Jun. 10, 1997, Call validation system; Steven J. Hogan, et al., 379/112, 91.01, 121, 266, 267 [IMAGE AVAILABLE]

US PAT NO: 5,633,919 [IMAGE AVAILABLE] L7: 27 of 45  
TITLE: Real-time billing system for a call processing system

27. 5,633,919, May 27, 1997, Real-time billing system for a call processing system; Steven J. Hogan, et al., 379/115, 91.01, 112, 260, 267 [IMAGE AVAILABLE]

US PAT NO: 5,617,471 [IMAGE AVAILABLE] L7: 28 of 45  
TITLE: Telecommunications system for transferring a telephone call

28. 5,617,471, Apr. 1, 1997, Telecommunications system for transferring a telephone call; Wesley D. Rogers, et al., 379/212, 67.1, 115, 127, 202, 219 [IMAGE AVAILABLE]

US PAT NO: 5,615,251 [IMAGE AVAILABLE] L7: 29 of 45  
TITLE: Real-time reconfiguration

29. 5,615,251, Mar. 25, 1997, Real-time reconfiguration; Steven J. Hogan, et al., 379/112; 376/112, 115, 267; 379/12, 91.02 [IMAGE AVAILABLE]

US PAT NO: 5,602,903 [IMAGE AVAILABLE] L7: 30 of 45  
TITLE: Positioning system and method

30. 5,602,903, Feb. 11, 1997, Positioning system and method; Frederick

S PAT NO: RE 36,111 [IMAGE AVAILABLE] L4: 1 of 3  
TITLE: Geographically mapped telephone routing method and system

1. RE 36,111, Feb. 23, 1999, Geographically mapped telephone routing method and system; **Daniel E. Neville**, 379/127, 201, 207, 211, 220 [IMAGE AVAILABLE]

US PAT NO: 5,805,689 [IMAGE AVAILABLE] L4: 2 of 3  
TITLE: Geographically mapped telephone routing method and system

2. 5,805,689, Sep. 8, 1998, Geographically mapped telephone routing method and system; **Daniel E. Neville**, 379/220, 201, 207, 211 [IMAGE AVAILABLE]

US PAT NO: 5,588,048 [IMAGE AVAILABLE] L4: 3 of 3  
TITLE: Geographically mapped telephone routing method and system

3. 5,588,048, Dec. 24, 1996, Geographically mapped telephone routing method and system; **Daniel E. Neville**, 379/127, 201, 207, 211, 220, 912 [IMAGE AVAILABLE]

W. LeBlanc, et al., 455/456; 342/450, 457 [IMAGE AVAILABLE]

US PAT NO: 5,590,181 [IMAGE AVAILABLE] L7: 31 of 45  
TITLE: Call-processing system and method

31. 5,590,181, Dec. 31, 1996, Call-processing system and method; Steven J. Hogan, et al., 379/114, 201, 223 [IMAGE AVAILABLE]

US PAT NO: 5,586,175 [IMAGE AVAILABLE] L7: 32 of 45  
TITLE: Call-processing system and method

32. 5,586,175, Dec. 17, 1996, Call-processing system and method; Steven J. Hogan, et al., 379/112, 113, 196 [IMAGE AVAILABLE]

US PAT NO: 5,555,290 [IMAGE AVAILABLE] L7: 33 of 45  
TITLE: Long distance telephone switching system with enhanced subscriber services

33. 5,555,290, Sep. 10, 1996, Long distance telephone switching system with enhanced subscriber services; Clark E. McLeod, et al., 379/88.25, 88.07, 88.2, 91.02, 112, 201, 207, 216 [IMAGE AVAILABLE]

US PAT NO: 5,550,899 [IMAGE AVAILABLE] L7: 34 of 45  
TITLE: Long distance telephone switching system with enhanced subscriber services

34. 5,550,899, Aug. 27, 1996, Long distance telephone switching system with enhanced subscriber services; Clark E. McLeod, et al., 379/88.25, 84, 88.07, 88.2, 207, 211, 216 [IMAGE AVAILABLE]

US PAT NO: 5,483,582 [IMAGE AVAILABLE] L7: 35 of 45  
TITLE: Applications platform for a telephone system gateway interface

35. 5,483,582, Jan. 9, 1996, Applications platform for a telephone system gateway interface; Joel A. Pugh, et al., 379/144, 88.22, 112, 114, 155, 220 [IMAGE AVAILABLE]

US PAT NO: 5,313,616 [IMAGE AVAILABLE] L7: 36 of 45  
TITLE: Method for analyzing calls of application program by inserting monitoring routines into the executable version and redirecting calls to the monitoring routines

36. 5,313,616, May 17, 1994, Method for analyzing calls of application program by inserting monitoring routines into the executable version and redirecting calls to the monitoring routines; David C. Cline, et al., 395/704; 364/264.1, 274.5, 280.4, 280.5, DIG.1; 713/323; 714/35, 45 [IMAGE AVAILABLE]

US PAT NO: 5,222,120 [IMAGE AVAILABLE] L7: 37 of 45  
TITLE: Long distance telephone switching system with enhanced subscriber services

37. 5,222,120, Jun. 22, 1993, Long distance telephone switching system with enhanced subscriber services; Clark E. McLeod, et al., 379/88.24, 88.25, 196, 201, 202, 207, 216 [IMAGE AVAILABLE]

US PAT NO: 5,187,710 [IMAGE AVAILABLE] L7: 38 of 45

S CALL TYPE AND 800

59269 CALL  
1538388 TYPE  
516 CALL TYPE  
(CALL(W)TYPE)

157628 800  
L5 172 CALL TYPE AND 800

=> S L5 AND VALIDATION

7217 VALIDATION  
L6 51 L5 AND VALIDATION

=> S L6 AND DATABASE

19266 DATABASE  
L7 45 L6 AND DATABASE

=> D TI,CIT 1-

US PAT NO: 5,887,058 [IMAGE AVAILABLE] L7: 1 of 45  
TITLE: Digit parsing for a flexible dial plan capability in a  
telecommunications switch

1. 5,887,058, Mar. 23, 1999, Digit parsing for a flexible dial plan  
capability in a telecommunications switch; Ramesh Kammath, et al.,  
379/284, 268, 269, 424 [IMAGE AVAILABLE]

US PAT NO: 5,878,127 [IMAGE AVAILABLE] L7: 2 of 45  
TITLE: Method and apparatus for facilitating remote  
communications access to multiple locations within a  
telecommunications network

2. 5,878,127, Mar. 2, 1999, Method and apparatus for facilitating remote  
communications access to multiple locations within a telecommunications  
network; Harold C. Fleischer, III, 379/220, 196 [IMAGE AVAILABLE]

US PAT NO: 5,873,099 [IMAGE AVAILABLE] L7: 3 of 45  
TITLE: System and method for maintaining redundant databases

3. 5,873,099, Feb. 16, 1999, System and method for maintaining redundant  
databases; Steven J. Hogan, et al., 707/204, 202; 714/6 [IMAGE AVAILABLE]

US PAT NO: 5,867,780 [IMAGE AVAILABLE] L7: 4 of 45  
TITLE: Access free wireless telephony fulfillment service system

4. 5,867,780, Feb. 2, 1999, Access free wireless telephony fulfillment  
service system; James E. Malackowski, et al., 455/414; 348/17; 455/4.2  
[IMAGE AVAILABLE]

US PAT NO: 5,867,566 [IMAGE AVAILABLE] L7: 5 of 45  
TITLE: Real-time billing system for a call processing system

5. 5,867,566, Feb. 2, 1999, Real-time billing system for a call  
processing system; Steven J. Hogan, et al., 379/115, 119, 127 [IMAGE  
AVAILABLE]



> s 800 type

157628 800  
1538388 TYPE  
L13 112 800 TYPE  
(800(W)TYPE)

=> s 113 and 900 type

101436 900  
1538388 TYPE  
50 900 TYPE  
(900(W)TYPE)  
L14 11 L13 AND 900 TYPE

=> s 114 and ani

1622 ANI  
L15 9 L14 AND ANI

=> d ti, cit 1-

US PAT NO: RE 36,111 [IMAGE AVAILABLE] L15: 1 of 9  
TITLE: Geographically mapped telephone routing method and system

1. RE 36,111, Feb. 23, 1999, Geographically mapped telephone routing method and system; Daniel E. Neville, 379/127, 201, 207, 211, 220 [IMAGE AVAILABLE]

US PAT NO: 5,875,237 [IMAGE AVAILABLE] L15: 2 of 9  
TITLE: Telecommunications network routing

2. 5,875,237, Feb. 23, 1999, Telecommunications network routing; William Harrison Bolinger Jr., et al., 379/114, 116, 117, 119, 121 [IMAGE AVAILABLE]

US PAT NO: 5,805,689 [IMAGE AVAILABLE] L15: 3 of 9  
TITLE: Geographically mapped telephone routing method and system

3. 5,805,689, Sep. 8, 1998, Geographically mapped telephone routing method and system; Daniel E. Neville, 379/220, 201, 207, 211 [IMAGE AVAILABLE]

US PAT NO: 5,740,234 [IMAGE AVAILABLE] L15: 4 of 9  
TITLE: Telephone call monitoring method and apparatus

4. 5,740,234, Apr. 14, 1998, Telephone call monitoring method and apparatus; James Edward Black, et al., 379/115, 113, 133, 134, 207 [IMAGE AVAILABLE]

US PAT NO: 5,619,556 [IMAGE AVAILABLE] L15: 5 of 9  
TITLE: Automated telecommunication peripheral system

5. 5,619,556, Apr. 8, 1997, Automated telecommunication peripheral system; Charles T. Richardson, Jr., et al., 379/88.22, 34, 88.2, 88.25, 88.26, 112, 202, 203 [IMAGE AVAILABLE]

US PAT NO: 5,617,448 [IMAGE AVAILABLE] L15: 6 of 9

TITLE: Telecommunications network routing

6. 5,617,448, Apr. 1997, Telecommunications network routing; William H. Bolinger, Jr., et al., 379/114, 116, 117, 119, 121 [IMAGE AVAILABLE]

US PAT NO: 5,510,777 [IMAGE AVAILABLE] L15: 7 of 9  
TITLE: Method for secure access control

7. 5,510,777, Apr. 23, 1996, Method for secure access control; Randolph J. Pilc, et al., 340/825.31, 825.3; 379/91.02, 93.03 [IMAGE AVAILABLE]

US PAT NO: 5,335,266 [IMAGE AVAILABLE] L15: 8 of 9  
TITLE: Automated telecommunication peripheral system

8. 5,335,266, Aug. 2, 1994, Automated telecommunication peripheral system; Charles T. Richardson, Jr., et al., 379/88.26, 34, 112, 127, 202, 203, 207, 208 [IMAGE AVAILABLE]

US PAT NO: 5,276,444 [IMAGE AVAILABLE] L15: 9 of 9  
TITLE: Centralized security control system

9. 5,276,444, Jan. 4, 1994, Centralized security control system; Bruce E. McNair, 340/825.33, 825.31; 379/91.01, 112, 123 [IMAGE AVAILABLE]

=> d kwic ti,cit 1-

US PAT NO: RE 36,111 [IMAGE AVAILABLE] L15: 1 of 9

SUMMARY:

BSUM(29)

The . . . provider of specific goods or services. In the system a caller's geographic location is identified by an Automatic Number Identification (**ANI**) which is then correlated with a database established according to criteria of a second party, usually an advertiser or provider. . . .

DETDESC:

DETD(4)

**ANI** Automatic Number Identification. A caller's full telephone number.

DETDESC:

DETD(14)

NPA The area code from which a call originates. This is also the first three digits of the **ANI**.

DETDESC:

DETD(15)

NXX The telephone exchange from which a call originates. The NXX immediately follows the NPA in the **ANI**.

DETDESC:

DETD(48)

Let's assume that another consumer in New York 11, with the telephone number (**ANI**) 212-238-4567, sees the ad and decides to call 1-800-DIAMOND.

DETDESC:

DETD(49)

Database processing, as described above, has determined that this **ANI** should be direct routed to 212-578-5475.

DETDESC:

DETD(57)

With . . . and longitude, via a navigational or similar satellite communications system such as LORAN. In the event LDC's can accommodate the **ANI** and latitude and longitude concurrently, this invention can be employed to direct route calls from non-stationary telephones to the appropriate. . .

DETDESC:

DETD(61)

A caller at 1 with the **ANI** 212-123-4567 dials 1-800-POTHOLE to report street damage after a storm. The LEC at 2 reads the WATS number and signals. . . a POTS number. The LDC at 3 accesses its own NCP that contains the invention's database that corresponds to the **ANI** and the WATS number. The LDC signals the LEC at 2 with the appropriate POTS number, in this case 212-987-6542.. . .

DETDESC:

DETD(64)

A caller at 1 with the **ANI** 212-546-4657 dials 1-800-EXPRESS to request EXPRESS mall pickup of a parcel he wishes to send. The LEC at 2 reads. . . a POTS number. The LDC at 3 accesses its own NCP that contains the invention's database that corresponds to the **ANI** and the WATS number. The LDC signals the LEC at 2 with the appropriate POTS number, in this case 212-999-8754.. . .

DETDESC:

DETD(66)

A caller at 1 with the **ANI** 718-469-4567 dials 1-800-DISPLAY to request information regarding the high-performance video display. The LEC at 2 reads the WATS number and. . . a POTS number. The LDC at 3 accesses its own NCP that contains the invention's database that corresponds to the **ANI** and the WATS number. The LDC signals the LEC at 2 with the appropriate POTS number, in this case 914-229-9987.. . .

DETDESC:

DETD(68)

A caller at 1 with the **ANI** 212-846-9456 dials 1-800-VOTE4NY to request information regarding pending legislation. The LEC at 2 reads the WATS number and signals the. . . a POTS number. The LDC at 3 accesses its own NCP that contains the invention's database that corresponds to the **ANI** and the WATS number. The LDC signals the LEC at 2 with the appropriate POTS number, in this case 212-242-2999.. . .

DETDESC:

DETD(70)

A caller at 1 with the ANI 201-284-6945 dials 1-800-9BETTER to request information regarding the surgeon who will do a face-lift. The LEC at 2 reads the . . . a POTS number. The LDC at 3 accesses its own NCP that contains the invention's database that corresponds to the ANI and the WATS number. The LDC signals the LEC at (2) with the appropriate POTS number, in this case 914-422-9899.. . .

DETDESC:

DETD(72)

When a call is made from individual NPA-NXX-XXXX's, the carrier must, for billing purposes, capture that ANI. In capturing that ANI, it is possible to correlate the actual vertical/horizontal coordinates of that ANI, using third party or in-house data sources. Each time the invention is implemented, a new list of ANI's that responded to the advertisement is created. That listing of the full ANI and its vertical/horizontal coordinates are input into the invention's database as an update or an addendum. The process is one. . .

DETDESC:

DETD(73)

Due to the fact that a key or primary field in the database can be the ANI or the vertical/horizontal coordinates of the ANI, the correlational database may be relational or hierarchical. Due to the fact that demographic data is relational to specific geographic. . .

DETDESC:

DETD(115)

The . . . LDC or carrier. For most LDC's currently operating, the LDC can only direct route by the NPA-NXX identification of the ANI. A system has been developed, implemented and proven that instructs the LDC to direct route a call based on full 10-digit ANI, i.e., NPA-NXX-XXXX is direct routed to Location A, NPA-NXX-XXXY is direct routed to Location B. Application for this variation would. . .

CLAIMS:

CLMS(4)

4. The system of claim 3 wherein said long distance telephone service provider has equipment capable of accommodating **800-type** telephone traffic.

CLAIMS:

CLMS(5)

5. The system of claim 4 wherein said telephone number including digits uniquely characteristic to the second party is an **800-type** telephone number.

CLAIMS:

CLMS(12)

12. The method of claim 11 wherein said long distance telephone service provider has equipment capable of accommodating **800-type** telephone traffic.

CLAIMS:

CLMS(13)

13. The method of claim 12 wherein said telephone number including digits uniquely characteristic to the second party is an **800-type** telephone number.

CLAIMS:

CLMS(18)

18. . . .

from a first party who has an originating telephone number at a physical location and who dials one of an **800-type**, **900-type** or other special access code telephone number assigned to a second party, who has determined specific locations to receive calls. . . .

TITLE: Geographically mapped telephone routing method and system

1. RE 36,111, Feb. 23, 1999, Geographically mapped telephone routing method and system; Daniel E. Neville, 379/127, 201, 207, 211, 220 [IMAGE AVAILABLE]

US PAT NO: 5,875,237 [IMAGE AVAILABLE]

L15: 2 of 9

DETDESC:

DETD(6)

In . . . The called number is preferably a special handling number (also called an N00 number) such as a 700, 800 or **900 type** number with an 800 number being particularly preferred as the called number.

DETDESC:

DETD(8)

If . . . an 800 number, the call is routed over inter-machine line 32 to IXC switch 28 in step 212. Because only **800 type** calls are received over line 32, switch 28 responds in step 214 by routing the call over the network as. . . .

DETDESC:

DETD(10)

In the preferred embodiment, LEC switch 36 also attaches a so-called pseudo-**ANI** (automatic number identification) to the 800 number as it is transferred to the IXC. The pseudo-**ANI** substitutes for the telephone number of calling station 12 and can be used to identify the nature of the call as one originating in another country. As those skilled in the art will appreciate, the pseudo-**ANI** could also be attached to the digit string at gateway switch 26 or network switch 32.

DETDESC:

DETD(14)

The . . . within network 14 are assessed for billing to destination 40. In particular, the charges billed to destination 40 are the **800 type** charges associated with an 800 call originating at LEC switch 36 and terminating at destination 40 by the IXC that. . . .

CLAIMS:

CLMS(3)

3. . . . of claim 1, wherein the step of reoriginating the call includes the steps of:  
attaching to the toll-free number a pseudo-**ANI** that identifies the call as one that originated in a foreign country.

CLAIMS:

CLMS(4)

4. . . . of claim 1, wherein the step of reoriginating the call includes the steps of:  
attaching to the toll-free number a pseudo-**ANI** that identifies the call as one that originated outside the geographic region served by an RBOC.

CLAIMS:

CLMS(8)

8. . . . of claim 1, wherein the step of reoriginating the call includes the steps of:  
attaching to the toll-free number a pseudo-**ANI** that identifies the call as one that originated in a foreign country.

CLAIMS:

CLMS(9)

9. . . . of claim 1, wherein the step of reoriginating the call includes the steps of:  
attaching to the toll-free number a pseudo-**ANI** that identifies the call as one that originated outside the geographic region served by an RBOC.

TITLE: Telecommunications network routing

2. 5,875,237, Feb. 23, 1999, Telecommunications network routing; William Harrison Bolinger Jr., et al., 379/114, 116, 117, 119, 121 [IMAGE AVAILABLE]

US PAT NO: 5,805,689 [IMAGE AVAILABLE]

L15: 3 of 9

SUMMARY:

BSUM(29)

The . . . provider of specific goods or services. In the system a caller's geographic location is identified by an Automatic Number Identification (**ANI**) which is then correlated with a database established according to criteria of a second party, usually an advertiser or provider. . . .

DETDESC:

DETD(4)

**ANI** Automatic Number Identification. A caller's full telephone number.

DETDESC:

DETD(14)

NPA The area code from which a call originates. This is also the first three digits of the **ANI**.

DETDESC:

DETD(15)

NXX The telephone exchange from which a call originates. The NXX immediately follows the NPA in the ANI.

DETDESC:

DETD(48)

Let's assume that another consumer in New York 11, with the telephone number (ANI) 212-238-4567, sees the ad and decides to call 1-800-DIAMOND.

DETDESC:

DETD(49)

Database processing, as described above, has determined that this ANI should be direct routed to 212-578-5475.

DETDESC:

DETD(57)

With . . . and longitude, via a navigational or similar satellite communications system such as LORAN. In the event LDC's can accommodate the ANI and latitude and longitude concurrently, this invention can be employed to direct route calls from non-stationary telephones to the appropriate. . .

DETDESC:

DETD(61)

A caller at 1 with the ANI 212-123-4567 dials 1-800-POTHOLE to report street damage after a storm. The LEC at 2 reads the WATS number and signals. . . a POTS number. The LDC at 3 accesses its own NCP that contains the invention's database that corresponds to the ANI and the WATS number. The LDC signals the LEC at 2 with the appropriate POTS number, in this case 212-987-6542.. . .

DETDESC:

DETD(64)

A caller at 1 with the ANI 212-546-4657 dials 1-800-EXPRESS to request EXPRESS mail pickup of a parcel he wishes to send. The LEC at 2 reads. . . a POTS number. The LDC at 3 accesses its own NCP that contains the invention's database that corresponds to the ANI and the WATS number. The LDC signals the LEC at 2 with the appropriate POTS number, in this case 212-999-8754.. . .

DETDESC:

DETD(66)

A caller at 1 with the ANI 718-469-4567 dials 1-800-DISPLAY to request information regarding the high-performance video display. The LEC at 2 reads the WATS number and. . . a POTS number. The LDC at 3 accesses its own NCP that contains the invention's database that corresponds to the ANI and the WATS number. The LDC signals the LEC at 2 with the appropriate POTS number, in this case 914-229-9987.. . .

DETDESC:

DETD(68)

A caller at 1 with the **ANI** 212-846-9456 dials 1-800-VOTE4NY to request information regarding pending legislation. The LEC at 2 reads the WATS number and signals the. . . a POTS number. The LDC at 3 accesses its own NCP that contains the invention's database that corresponds to the **ANI** and the WATS number. The LDC signals the LEC at 2 with the appropriate POTS number, in this case 212-242-2999.. . .

DETDESC:

DETD(70)

A caller at 1 with the **ANI** 201-284-6945 dials 1-800-9BETTER to request information regarding the surgeon who will do a face-lift. The LEC at 2 reads the. . . a POTS number. The LDC at 3 accesses its own NCP that contains the invention's database that corresponds to the **ANI** and the WATS number. The LDC signals the LEC at 2 with the appropriate POTS number, in this case 914-422-9899.. . .

DETDESC:

DETD(72)

When a call is made from individual NPA-NXX-XXXX's, the carrier must, for billing purposes, capture that **ANI**. In capturing that **ANI**, it is possible to correlate the actual vertical/horizontal coordinates of that **ANI**, using third party or in-house data sources. Each time the invention is implemented, a new list of **ANI**'s that responded to the advertisement is created. That listing of the full **ANI** and its vertical/horizontal coordinates are input into the invention's database as an update or an addendum. The process is one. . . .

DETDESC:

DETD(73)

Due to the fact that a key or primary field in the database can be the **ANI** or the vertical/horizontal coordinates of the **ANI**, the correlational database may be relational or hierarchical.

DETDESC:

DETD(117)

The. . . LDC or carrier. For most LDC's currently operating, the LDC can only direct route by the NPA-NXX identification of the **ANI**. A system has been developed, implemented and proven that instructs the LDC to direct route a call based on full 10-digit **ANI**, i.e., NPA-NXX-XXXX is direct routed to Location A, NPA-NXX-XXXY is direct routed to Location B. Application for this variation would. . . .

CLAIMS:

CLMS(1)

I . . .

by a telephone service provider for direct routing a telephone call from a first party who dials one of an **800-type**, **900-type** or other special access code telephone number assigned to a second party, who has determined specific locations to receive calls. . . .

TITLE: Geographically mapped telephone routing method and system



3. 5,805,689, Sep. 8, 1998, Geographically mapped telephone routing method and system; Daniel E. Neville, 379/220, 201, 202, 211 [IMAGE AVAILABLE]

US PAT NO: 5,740,234 [IMAGE AVAILABLE]

L15: 4 of 9

SUMMARY:

BSUM(4)

For . . . of an interexchange carrier to complete a call placed to a telephone number that requires translation, such as 800- and **900-type** telephone number, at least two steps are required. The first step is the making of a decision on how to. . .

DETDESC:

DETD(4)

The . . . war. The caller selects a customer to call and dials a digit string, including a predetermined number, such as an **800-type** number, that has been established by the selected customer.

DETDESC:

DETD(10)

If . . . instructions are not returned includes 1) the caller dialed number in the DIAL.sub.-- ID field, 2) the automatic number identification (**ANI**), i.e., the telephone number of the calling station (or the carrier or country if the call originated outside of the. . .

DETDESC:

DETD(11)

. . . .  
Diald Number Identifier - Indicator of  
caller-dialed digits.  
CALL.sub.-- ORIG  
Call Origin - Redirection indicator or caller's **ANI**.  
TREAT.sub.-- ID  
Treatment Identifier - Routing telephone number,  
code for unrouted disposition, or announcement  

---

number.

DETDESC:

DETD(13)

If . . . its fields as the basic call record built when the call was originally routed, except that in place of the **ANI** a code indicating redirection is supplied as the value of the CALL.sub.-- ORIG field.

DETDESC:

DETD(20)

. . . .  
Diald Number Identifier - Indicator of  
caller-dialed digits.  
CALL.sub.-- ORIG  
Call Origin - Redirection indicator or caller's **ANI**.  
Q.sub.-- ID

Queue Identifier - Identity of the queue on which the call  
has been placed.  
NUM.sub.-- INQ. . .

DETDESC:

DETD(84)

If . . . a telephone line according to the North American Numbering Plan, i.e., does it correspond to a callable, automatic numbering identification (**ANI**) number. If the test result in step 1217 is NO, control passes to step 1213, in which the call record. . .

DETDESC:

DETD(85)

If . . . in step 1221 is YES, control passes directly to step 1227. Conditional branch point 1225 tests to determine if the **ANI** in the CALL.sub.-- ORIG field of the received call record is already listed in the lost **ANI** list of the lost-calls summary record. If the test result in step 1225 is NO, control passes to step 1227, in which the **ANI** from the CALL.sub.-- ORIG field of the received call record is appended to the LOST.sub.-- **ANI** list in the lost-calls summary record. If the test result in step 1225 is YES, control passes to conditional branch. . .

DETDESC:

DETD(87)

DIAL.sub.-- NUM

Dialed Number - Caller-dialed digits common to calls  
in this record (or surrogate if unavailable).

LOST.sub.-- **ANI**

Lost Callers' **ANI** - A list of the ANIs for calls which,  
for this dialed number, were unrouted, abandoned,  
timed out, . . .

TITLE: Telephone call monitoring method and apparatus

4. 5,740,234, Apr. 14, 1998, Telephone call monitoring method and apparatus; James Edward Black, et al., 379/115, 113, 133, 134, 207 [IMAGE AVAILABLE]

US PAT NO: 5,619,556 [IMAGE AVAILABLE]

L15: 5 of 9

DETDESC:

DETD(12)

The . . . file 86. In addition, the bridge application 90 has access to an identification (ID) table 91, an automatic number identification (**ANI**) table 92, a personal identification number (PIN) table 93, a local credit file 99, a remote credit file 100 located. . .

DETDESC:

DETD(19)

The . . . further configuring (or customizing) is necessary. According to the bridge application 90, the origination number (also referred to as the **ANI**) is first checked (step 112) against the **ANI** table 92 to verify that the PSN 12 and carrier switch 20 only direct calls from selected customer origination telephones. . .

DETDESC:

DETD(20)

If the **ANI** is valid, the destination number is checked (step 118) through the destination validator 95, which selectively accesses the blocked file. . . .

DETDESC:

DETD(40)

In the college registration application 88, student callers are allowed to call into the telecommunication peripheral system 10 over **800-type** or **900-type** number. (**900-type** numbers are similar to ordinary telephone calls with the exception that they normally cost callers additional money which is paid. . . .  
TITLE: Automated telecommunication peripheral system

5. 5,619,556, Apr. 8, 1997, Automated telecommunication peripheral system; Charles T. Richardson, Jr., et al., 379/88.22, 34, 88.2, 88.25, 88.26, 112, 202, 203 [IMAGE AVAILABLE]

US PAT NO: 5,617,448 [IMAGE AVAILABLE]

L15: 6 of 9

DETDESC:

DETD(6)

In . . . The called number is preferably a special handling number (also called an N00 number) such as a 700, 800 or **900 type** number with an 800 number being particularly preferred as the called number.

DETDESC:

DETD(8)

If . . . an 800 number, the call is routed over inter-machine line 32 to IXC switch 28 in step 212. Because only **800 type** calls are received over line 32, switch 28 responds in step 214 by routing the call over the network as. . . .

DETDESC:

DETD(10)

In the preferred embodiment, LEC switch 36 also attaches a so-called pseudo-**ANI** (automatic number identification) to the 800 number as it is transferred to the IXC. The pseudo-**ANI** substitutes for the telephone number of calling station 12 and can be used to identify the nature of the call as one originating in another country. As those skilled in the art will appreciate, the pseudo-**ANI** could also be attached to the digit string at gateway switch 26 or network switch 32.

DETDESC:

DETD(14)

The . . . within network 14 are assessed for billing to destination 40. In particular, the charges billed to destination 40 are the **800 type** charges associated with an 800 call originating at LEC switch 36 and terminating at destination 40 by the IXC that. . . .  
TITLE: Telecommunications network routing

6. 5,617,448, Apr. 1, 1997, Telecommunications network routing; William

SUMMARY:

BSUM(8)

In . . . nature of the request, i.e., all requests of the same form invoke the same level of security processing. For example, **800-type** calls require no security processing while calls billed to credit cards always require that a valid identification number be supplied. . . .

DETDESC:

DETD(11)

Authorized . . . destination profile storage 216 (FIG. 2). For the convenience of its authorized users, the bank has provided a toll free **800-type** number which requesters can dial to gain access to the computer system. The necessary authentication information has been obtained from. . . .

DETDESC:

DETD(12)

The . . . number, 1-800-BANK. In step 805, switching machine 120 receives the dialed digits and recognizes that the number dialed is an **800 type** number for which service is provided via long distance network 118.

DETDESC:

DETD(13)

Switching . . . distance network 118. Switching machines 128 routes the call to its appropriate associated NCP 132, as is typically performed for **800 type** calls in step 809. The appropriate NCP 132 is determined from the function to be provided by the NCP to. . . .

DETDESC:

DETD(17)

SCP . . . card number, including the PIN portion, must be supplied by the requester. Other requests, such as direct distance dialed calls, **800-type** and **900-type** calls, have a null first level of security processing. This first level of security processing may be performed by SCP. . . .

DETDESC:

DETD(20)

--	0	1 min		
	--	group3	1	10 min.
	--	group3	2	1 hour
1-800-STOKMKT				
	--	any	ANI=212 0	10 min.
	--	any	time=1000	
			1	unlimited
			-1600 local	
Internatn'l Calls to				

DETDESC:

DETD(21)

The . . . Origination. NPO stands for Non-public Phone Origination. A dash indicates the particular attribute is not considered for the specified destination. **ANI** is the abbreviation for Automatic Number Identification which is the source of the request. In this example only the area. . .

DETDESC:

DETD(23)

In . . . of the requester and the available call information. Available call information can include the originating address, e.g., automatic number identification (**ANI**), which would specify the location from which the access is sought; the destination to which access is sought which can. . .

DETDESC:

DETD(33)

For . . . level of security processing inherent in the request. This is because it is well known that the nature of conventional **800-type** calls by themselves, as requests for bandwidth connections to remote locations, do not to require any security processing for their completion, i.e., **800-type** calls do not require that an identity of the caller be alleged or that any form of authentication information be. . . a self-authenticating check sequence which is the user's PIN, is part of the additional security processing required for this particular **800-type** call request. This additional processing is invoked based on the destination attribute of the request and the need to satisfy. . .

DETDESC:

DETD(50)

Shown . . . LEC switching machine to which the user is connected, e.g., LEC switching machine 120, determines that the call is an **800 type** call handled by the long distance network 118. The handling of conventional unsecured **800 type** calls is well known to one skilled in the art. A message is sent from LEC switching machine 120 to an originating switching machine in long distance network 118, e.g. switching machine 128 indicating that there is an incoming **800 type** call and the number that has been dialed.

DETDESC:

DETD(55)

FIGS. . . . this example, is located at destination station 116. For the convenience of the public, a pay per use premium billing **900-type** access number (1-900-SPORTS) is provided under contract with the network operators by the purveyor of the hot line service.

DETDESC:

DETD(56)

A man, Joe Williams, desires to allow access to all **900-type**

services to the hot line service for himself and his wife but not to his two sons who have previously. . . large bills for t sports hot line service. The man has therefore arranged that security procedures be employed whenever a **900-type** call is to be billed to his account and he has supplied to the network operators identifying information that is. . . (1-900-INFOSVC). This information has been entered into SCP 134-1. Also, an indication that security services are to be invoked for **900-type** calls made from his line has been programmed into switching machine 128 in the same manner as is employed for. . .

DETDESC:

DETD(57)

Accordingly, . . . station 102. In step 1205, switching machine 120 receives the dialed digits and recognizes that the number dialed is an **900-type** number for which service is provided via long distance network 118. Such recognition may be performed by table lookup and. . . in step 1207 routes the call to switching machine 128 in long distance network 118. Switching machines 128 recognizes that **900-type** calls from this line are to be routed to security system 133 instead of NCP 132, in step 1209. For. . .

DETDESC:

DETD(62)

In . . . 8). In accordance with the principles of the invention, if the call was an ordinary long distance call or an **800-type** of call which did not meet any of the user specified set of attributes required to invoke additional security processing. . .

TITLE: Method for secure access control

7. 5,510,777, Apr. 23, 1996, Method for secure access control; Randolph J. Pilc, et al., 340/825.31, 825.3; 379/91.02, 93.03 [IMAGE AVAILABLE]

US PAT NO: 5,335,266 [IMAGE AVAILABLE] L15: 8 of 9

DETDESC:

DETD(12)

The . . . file 86. In addition, the bridge application 90 has access to an identification (ID) table 91, an automatic number identification (**ANI**) table 92, a personal identification number (PIN) table 93, a local credit file 99, a remote credit file 100 located. . .

DETDESC:

DETD(19)

The . . . further configuring (or customizing) is necessary. According to the bridge application 90, the origination number (also referred to as the **ANI**) is first checked (step 112) against the **ANI** table 92 to verify that the PSN 12 and carrier switch 20 only direct calls from selected customer origination telephones. . .

DETDESC:

DETD(20)

If the **ANI** is valid, the destination number is checked (step 118) through the destination validator 95, which selectively accesses the blocked file. . .

DETDESC:

DETD(40)

In the college registration application 88, student callers are allowed to call into the telecommunication peripheral system 10 over **800-type** or **900-type** number. (**900-type** numbers are similar to ordinary telephone calls with the exception that they normally cost callers additional money which is paid. . . .  
TITLE: Automated telecommunication peripheral system

8. 5,335,266, Aug. 2, 1994, Automated telecommunication peripheral system; Charles T. Richardson, Jr., et al., 379/88.26, 34, 112, 127, 202, 203, 207, 208 [IMAGE AVAILABLE]

US PAT NO: 5,276,444 [IMAGE AVAILABLE]

L15: 9 of 9

DETDESC:

DETD(11)

Authorized . . . destination profile storage 216 (FIG. 2). For the convenience of its authorized users, the bank has provided a toll free **800-type** number which requesters can dial to gain access to the computer system. The necessary authentication information has been obtained from. . . .

DETDESC:

DETD(12)

The . . . number, 1-800-BANK. In step 805, switching machine 120 receives the dialed digits and recognizes that the number dialed is an **800 type** number for which service is provided via long distance network 118.

DETDESC:

DETD(13)

Switching . . . distance network 118. Switching machines 128 routes the call to its appropriate associated NCP 132, as is typically performed for **800 type** calls in step 809. The appropriate NCP 132 is determined from the function to be provided by the NCP to. . . .

DETDESC:

DETD(17)

SCP . . . card number, including the PIN portion, must be supplied by the requester. Other requests, such as direct distance dialed calls, **800-type** and **900-type** calls, have a null first level of security processing. This first level of security processing may be performed by SCP. . . .

DETDESC:

DETD(20)

. . . .  
1 min

-- group 3	1	20 min.
-- group 3	2	1 hour

1-800-STOKMKT

-- any	ANI = 212	
	0	10 min.

-- any time = 1000  
1 unlimited  
-1000 local

Internatn'l Calls. . .

DETDESC:

DETD(21)

The . . . Origination. NPO stands for Non-public Phone Origination. A dash indicates the particular attribute is not considered for the specified destination. **ANI** is the abbreviation for Automatic Number Identification which is the source of the request. In this example only the area. . .

DETDESC:

DETD(23)

Whether . . . of the requester and the available call information. Available call information can include the originating address, e.g., automatic number identification (**ANI**), which would specify the location from which the access is sought; the destination to which access is sought which can. . .

DETDESC:

DETD(33)

For . . . level of security processing inherent in the request. This is because it is well known that the nature of conventional **800-type** calls by themselves, as requests for bandwidth connections to remote locations, do not to require any security processing for their completion, i.e., **800-type** calls do not require that an identity of the caller be alleged or that any form of authentication information be. . . a self-authenticating check sequence which is the user's PIN, is part of the additional security processing required for this particular **800-type** call request. This additional processing is invoked based on the destination attribute of the request and the need to satisfy. . .

DETDESC:

DETD(50)

Shown . . . LEC switching machine to which the user is connected, e.g., LEC switching machine 120, determines that the call is an **800 type** call handled by the long distance network 118. The handling of conventional unsecured **800 type** calls is well known to one skilled in the art. A message is sent from LEC switching machine 120 to an originating switching machine in long distance network 118, e.g. switching machine 128 indicating that there is an incoming **800 type** call and the number that has been dialed.

DETDESC:

DETD(55)

FIGS. . . this example, is located at destination station 116. For the convenience of the public, a pay per use premium billing **900-type** access number (1-900-SPORTS) is provided under contract with the network operators by the purveyor of the hot line service.

DETDESC:



DETD(56)

A man, Joe Williams, desires to allow access to all **900-type** services to the hot line service for himself and his wife but not to his two sons who have previously. . . large bills for the sports hot line service. The man has therefore arranged that security procedures be employed whenever a **900-type** call is to be billed to his account and he has supplied to the network operators identifying information that is. . . (1-900-INFOSVC). This information has been entered into SCP 134-1. Also, an indication that security services are to be invoked for **900-type** calls made from his line has been programmed into switching machine 128 in the same manner as is employed for. . .

DETDESC:

DETD(57)

Accordingly, . . . station 102. In step 1205, switching machine 120 receives the dialed digits and recognizes that the number dialed is an **900-type** number for which service is provided via long distance network 118. Such recognition may be performed by table lookup and. . . in step 1207 routes the call to switching machine 128 in long distance network 118. Switching machine 128 recognizes that **900-type** calls from this line are to be routed to security system 133 instead of NCP 132, in step 1209. For. . .

DETDESC:

DETD(62)

Access . . . information as described above for step 825 (FIG. 8). If the call was an ordinary long distance call or an **800-type** of call which did not meet any of the user specified set of attributes required to invoke additional security processing. . .

TITLE: Centralized security control system

9. 5,276,444, Jan. 4, 1994, Centralized security control system; Bruce E. McNair, 340/825.33, 825.31; 379/91.01, 112, 123 [IMAGE AVAILABLE]

US PAT NO: 5,867,495 [IMAGE AVAILABLE] L7: 6 of 45  
TITLE: System, method and article of manufacture for  
communications utilizing calling, plans in a hybrid  
network

6. 5,867,495, Feb. 2, 1999, System, method and article of manufacture  
for communications utilizing calling, plans in a hybrid network; Isaac K.  
Elliott, et al., 370/352, 389, 392; 379/90.01, 93.07, 114, 144 [IMAGE  
AVAILABLE]

US PAT NO: 5,867,494 [IMAGE AVAILABLE] L7: 7 of 45  
TITLE: System, method and article of manufacture with integrated  
video conferencing billing in a communication system  
architecture

7. 5,867,494, Feb. 2, 1999, System, method and article of manufacture  
with integrated video conferencing billing in a communication system  
architecture; Sridhar Krishnaswamy, et al., 370/352, 389, 392; 379/90.01,  
93.07, 114 [IMAGE AVAILABLE]

US PAT NO: 5,854,833 [IMAGE AVAILABLE] L7: 8 of 45  
TITLE: Processing using DEF records

8. 5,854,833, Dec. 29, 1998, Processing using DEF records; Steven J.  
Hogan, et al., 379/112, 91.01, 121, 260, 267 [IMAGE AVAILABLE]

US PAT NO: 5,850,599 [IMAGE AVAILABLE] L7: 9 of 45  
TITLE: Portable cellular telephone with credit card debit system

9. 5,850,599, Dec. 15, 1998, Portable cellular telephone with credit  
card debit system; Abe Seiderman, 455/406; 379/144; 455/404, 408, 409  
[IMAGE AVAILABLE]

US PAT NO: 5,844,973 [IMAGE AVAILABLE] L7: 10 of 45  
TITLE: Conference billing system with ID tagging

10. 5,844,973, Dec. 1, 1998, Conference billing system with ID tagging;  
Arunachalam Venkatraman, et al., 379/127, 116, 118, 119 [IMAGE AVAILABLE]

US PAT NO: 5,809,121 [IMAGE AVAILABLE] L7: 11 of 45  
TITLE: System and method for generating a network call identifier

11. 5,809,121, Sep. 15, 1998, System and method for generating a network  
call identifier; Isaac K. Elliott, et al., 379/127, 116, 134, 207, 229  
[IMAGE AVAILABLE]

US PAT NO: 5,802,142 [IMAGE AVAILABLE] L7: 12 of 45  
TITLE: Data correction system for communications network

12. 5,802,142, Sep. 1, 1998, Data correction system for communications  
network; John Martin Browne, 379/28; 373/11, 13 [IMAGE AVAILABLE]

US PAT NO: 5,799,156 [IMAGE AVAILABLE] L7: 13 of 45  
TITLE: System for determining an alternative application to  
receive message from first application when the number  
of times to resend the message to second application is  
exceeded

13. 5,799,156, Aug. 25, 1998, System for determining an alternative  
application to receive message from first application when the number of  
times to resend the message to second application is exceeded; Steven J.  
Hogan, et al., 709/237 [IMAGE AVAILABLE]

US PAT NO: 5,799,073 [IMAGE AVAILABLE] L7: 14 of 45  
TITLE: Apparatus and method for recording call related data

14. 5,799,073, Aug. 1998, Apparatus and method for recording call related data; Harold C. Fleischer, III, et al., 379/116, 120, 121, 134, 230; 704/270 [IMAGE AVAILABLE]

US PAT NO: 5,768,353 [IMAGE AVAILABLE] L7: 15 of 45  
TITLE: Data processing system for communications network

15. 5,768,353, Jun. 16, 1998, Data processing system for communications network; John Martin Browne, 379/114, 13 [IMAGE AVAILABLE]

US PAT NO: 5,752,186 [IMAGE AVAILABLE] L7: 16 of 45  
TITLE: Access free wireless telephony fulfillment service system

16. 5,752,186, May 12, 1998, Access free wireless telephony fulfillment service system; James E. Malackowski, et al., 455/414, 403, 412 [IMAGE AVAILABLE]

US PAT NO: 5,734,678 [IMAGE AVAILABLE] L7: 17 of 45  
TITLE: Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or a plurality of RF channels

17. 5,734,678, Mar. 31, 1998, Subscriber RF telephone system for providing multiple speech and/or data signals simultaneously over either a single or a plurality of RF channels; Eric Paneth, et al., 375/240; 370/330, 436, 478; 455/403, 509 [IMAGE AVAILABLE]

US PAT NO: 5,727,057 [IMAGE AVAILABLE] L7: 18 of 45  
TITLE: Storage, transmission, communication and access to geographical positioning data linked with standard telephony numbering and encoded for use in telecommunications and related services

18. 5,727,057, Mar. 10, 1998, Storage, transmission, communication and access to geographical positioning data linked with standard telephony numbering and encoded for use in telecommunications and related services; Mark Emery, et al., 379/211, 16, 212, 230, 246; 455/406, 456 [IMAGE AVAILABLE]

US PAT NO: 5,712,908 [IMAGE AVAILABLE] L7: 19 of 45  
TITLE: Apparatus and method for generating call duration billing records utilizing ISUP messages in the CCS/SS7 telecommunications network

19. 5,712,908, Jan. 27, 1998, Apparatus and method for generating call duration billing records utilizing ISUP messages in the CCS/SS7 telecommunications network; Anthony J. Brinkman, et al., 379/119, 34, 112, 230 [IMAGE AVAILABLE]

US PAT NO: 5,703,935 [IMAGE AVAILABLE] L7: 20 of 45  
TITLE: Automated telephone operator services

20. 5,703,935, Dec. 30, 1997, Automated telephone operator services; Anousheh Raissyan, et al., 379/88.18, 88.06, 88.22, 127, 142, 211, 214, 223 [IMAGE AVAILABLE]

US PAT NO: 5,694,463 [IMAGE AVAILABLE] L7: 21 of 45  
TITLE: System for service control point routing

21. 5,694,463, Dec. 2, 1997, System for service control point routing; Joseph Michael Christie, et al., 379/230, 207, 221 [IMAGE AVAILABLE]

US PAT NO: 5,687,194 [IMAGE AVAILABLE] L7: 22 of 45  
TITLE: Subscriber RF telephone system for providing multiple